10/798,857

Form PTO-1449 US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** *(use as many sheets as necessary)*				*Complete if Known*	
				Application Number	Divisional of USSN 10/131,854 filed April 25, 2002
				Filing Date	Concurrently herewith
				First Named Inventor	James F. Brown
				Art Unit	
				Examiner Name	
				Confirmation No.	
Sheet	1	of	4	Attorney Docket No.	832 001 DIV3

U.S. PATENT DOCUMENTS

Exam. Initial		Document Number	Date	Name	Class	Sub Class	Filing Date
a		4,591,567	05/1986	Britten et al.			
		4,834,946	05/1989	Levin			
		4,911,782	03/1990	Brown			
		5,176,203	01/1993	Larzul			
		5,200,152	04/1993	Brown			
		5,225,332	07/1993	Weaver et al.			
		5,346,672	09/1994	Stapleton et al.			
		5,498,392	03/1996	Wilding et al.			
		5,503,803	04/1996	Brown			
		5,525,464	06/1996	Drmanac et al.			
		5,585,069	12/1996	Zanzucchi et al.			
		5,229,297	07/1993	Schnipelsky et al.			
		5,380,489	01/1995	Sutton et al.			
		6,049,380	04/2000	Goodwin et al.			
		6,132,580	10/2000	Mathies et al.			
		6,143,496	11/2000	Brown et al.			
a		6,391,559	5/2002	Brown et al.			

C. el. 1/2/07

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Sheet	2	of	4	Attorney Docket No.	832 001 DIV 3

OTHER DOCUMENTS
(Including Author, Title, Date, Pertinent Pages etc.)

w		Wittwer et al., "THE LIGHTCYCLER™: A MICROVOLUME MULTISAMPLE FLOURIMETER WITH RAPID TEMPERATURE CONTROL"; *BioTechniques*, Vol. 22, No. 1, pp 176-181 (Jan 1997)
		Woolley et al.; "ULTRA-HIGH-SPEED DNA FRAGMENT SEPARATIONS USING MICROFABRICATED CAPILLARY ARRAY ELECTROPHORESIS CHIPS"; *Proc. Natl. Acad. Sci. USA*, Vol. 91, pp. 11348-11352, *Biophysics*, (1994)
		Wilding et al., "PCR IN A SILICONE MIRCROSTRUCTURE; *Clinical Chemistry*, Vol. 40, No. 9, pp 1815-1818 (1994)
		Good et al.; "GENERALIZATION OF THEORY FOR ESTIMATION OF INTERFACIAL ENERGIES; *Chemistry and Physics of Interfaces*, ACS, pp 91-96 (1971)
		Burns et al.; "MICROFABRICATED STRUCTURES FOR INTEGRATED DNA ANALYSIS; *Proc. Natl. Acad. Sci. USA*, Vol. 93, pp. 5556-5561, Genetics (1996)
		Rigler, "FLUORESCENCE CORRELATIONS, SINGLE MOLECULE DETECTION AND LARGE NUMBER SCREENING APPLICATIONS IN BIOTECHNOLOGY"; *Journal of Biotechnology*, Vol. 41, pp 177-186 (1995)
		Cheng et al.; "ANALYSIS OF LIGASE CHAIN REACTION PRODUCTS AMPLIFIED IN A SILICON-GLASS CHIP USING CAPILLARY ELECTROPHORESIS", *Journal of Chromatography*, Vol. 732, pp 151-158 (1996)
		Kricka et al.; "IMAGING OF CHEMILUMINESCENT REACTIONS IN MESOCALE SILICON-GLASS MICROSTRUCTURES"; *J. Biolumin Chemilumin*, Vol. 9; pp 135-138 (1994)
		Woolley et al., "ULTRA-HIGH-SPEED DNA SEQUENCING USING CAPILLARY ELECTROPHORESIS CHIPS"; *Anal-Chem*, Vol. 67, No. 20, pp 3676-3680 (1995)
		Hawkins et al.; "INCORPORATION OF A FLUORESCENT GUANOSINE ANALOG INTO OLIGONUCLEOTIDES AND ITS APPLICATION TO A REAL TIME ASSAY FOR THE HIV-1 INTEGRASE 3'-PROCESSING REACTION"; *Nucleic Acids Research*, Vol. 23, No. 15, pp 2872-2880 (1995)
		Tyagi et al.; "MOLECULAR BEACONS: PROBES THAT FLUORESCE UPON HYBRIDIZATION" *Nature Biotechnology*, Vol. 14, pp 303-308 (1996)
		Holland et al.; "DETECTION OF SPECIFIC POLYMERASE CHAIN REACTION PRODUCT BY UTILIZING THE *5' → 3'* EXONUCLEASE ACTIVITY OF *THERMUS AQUATICUS* DNA POLYMERASE; *Proc. Natl. Acad. Sci.*, Vol. 88, *Biochemistry*, pp 7276-7280 (1991)
		Livak et al.; "OLIGONUCLEOTIDES WITH FLUORESCENT DYES AT OPPOSITE ENDS PROVIDE A QUENCHED PROBE SYSTEM USEFUL FOR DETECTING PCR PRODUCT AND NUCLEIC ACID HYBRIDIZATION"; *PCR Method and Applications*, pp 357-362 (1995)
		Sninsky et al.; "THE APPLICATION OF QUANTITATIVE POLYMERASE CHAIN REACTION TO THERAPEUTIC MONITORING"; AIDS, Vol. 7 (Supp 2), pp S29-S34 (1993)
w		Becker-André et al., "ABSOLUTE mRNA QUANTIFICATION USING THE POLYMERASE CHAIN REACTION (PCR); *Nucleic Acids Research*, Vol. 17, No. 22, pp 9437-9446 (1989)

Examiner:	C. Ch.	Date Considered:	1/2/07

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OTHER DOCUMENTS
(Including Author, Title, Date, Pertinent Pages etc.)

cc		Gilliland et al.; "ANALYSIS OF CYTOKINE mRNA AND DNA: DETECTION AND QUANTITATION BY COMPETITIVE POLYMERASE CHAIN REACTION", *Proc. Natl. Acad. Sci. USA*, Vol. 87, Genetics, pp 2725-2729 (1990)
		Higuchi et al.; "SIMULTANEOUS AMPLIFICATION AND DETECTION OF SPECIFIC DNA SEQUENCES"; *Biotechnology*, Vol. 10, pp 413-417 (1992)
		Held et al.; "REAL TIME QUANTITATIVE PCR", *Genome Research*, No. 6, pp 986-994 (1996)
		Gibson et al.; "A NOVEL METHOD FOR REAL TIME QUANTITATIVE RT-PCR"; *Genome Research*, No. 6, pp 995-1001 (1996)
		Gerard et al.; "A RAPID AND QUANTITATIVE ASSAY TO ESTIMATE GENE TRANSFER INTO RETROVIRALLY TRANSDUCED HEMATOPOIETIC STEM/PROGENITOR CELLS USING A 96-WELL FORMAT PCR AND FLUORESCENT DETECTION SYSTEM UNIVERSAL FOR MMLV-BASED PROVIRUSES"; *Human Gene Therapy*, No. 7, pp 343-354 (1996)
		Wittwer et al., "RAPID CYCLE DNA AMPLIFICATION", *Biotechniques*, Vol. 10, No. 1, pp 76-83 (1991)
		Chang, *Physical Chemistry With Applications to Biological Systems*, 2nd Edition, Sec. 5.4, pg 87
		Berg, *Random Walks in Biology*, "DIFFUSION: MICROSCOPIC THEORY", pp 10, 49 (1983)
		Burns et al.; "MICROFABRICATED STRUCTURES FOR INTEGRATED DNA ANALYSIS, *Proc. Natl. Acad. Sci.*, Vol. 93, Genetics, pp 5556-5561 (1996)
		Cheng et al.; "CHIP PCR.II. INVESTIGATION OF DIFFERENT PCR AMPLIFICATION SYSTEMS IN MICROFABRICATED SILICON-GLASS CHIPS; *Nucleic Acids Research*, Vol. 24, No. 2, pp 380-385 (1996)
		Woolley et al.; "FUNCTIONAL INTEGRATION OF PCR AMPLIFICATION AND CAPILLARY ELECTROPHORESIS IN A MICROFABRICATED DNA ANALYSIS DEVICE"; *Anal. Chem.* No. 68, pp 4081-4086 (1996)
		Wittwer et al.; "CONTINUOUS FLUORESCENCE MONITORING OF RAPID CYCLE DNA AMPLIFICATION; *Biotechniques*, 22, pp 130-138 (Jan. 1997)
		Hawkins et al.; "FLUORESCENCE PROPERTIES OF PTERIDINE NUCLEOSIDE ANALOGS AS MONOMERS AND INCORPORATED INTO OLIGONUCLEOTIDES, *Analytical Biochemistry*, 244, pp 86-95 (1997)
↓		Xu et al., "DIRECT MEASUREMENT OF SINGLE-MOLECULE DIFFUSION AND PHOTODECOMPOSITION IN FREE SOLUTION", *Science*, Vol. 275, pp 1106-1109 (Feb. 1997)
cc		*CRC Handbook of Chemistry and Physics*, 74th Edition, Lide (Editor-In-Chief), p 6-10 (1993-1994)

Examiner:	C. el.	Date Considered:	1/2/07

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OTHER DOCUMENTS
(Including Author, Title, Date, Pertinent Pages etc.)

a	Abstract of Li et al., *Direct Electrophoretic Detection of the Allelic State of Single DNA Molecules in Human Sperm by Using the Polymerase Chain Reaction*, Proc. Nat'l. Acad. Sci. USA, 87 (12), pp. 4580-4584 (June 1990).
	Abstract of Nakamura et al., *Amplification and Detection of a Single Molecule of Human Immunodeficiency virus RNA*, Virus Genes, 7(4), pp. 325-38 (Dec. 1993).
	Abstract of Stephens et al., *Theoretical Underpinning of the Single-Molecule-Dilution (SMD) Method of Direct Haplotype Resolution*, Am. J. Hum. Genet., 46(6), pp. 1149-55, Department of Human Genetics, Yale University School of Medicine, New Haven, CT 06511 (June 1990).
a	Abstract of Jena et al., *Amplification of Genes, Single Transcripts and cDNA Libraries From One Cell and Direct Sequence Analysis of Amplified Products Derived From One Molecule*. J. Immun. Mthds, 190(2), pp. 199-213 (April 19, 1996).

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